

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	594	(density-gradient or (density near4 gradient)) with (filter or fabric)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:51
L3	3352	nonwoven with (fabric or filter) and (air\$2laid or (air near2 (lay or laid)))	US-PGPUB; USPAT	OR	ON	2008/12/18 13:51
L4	19	L2 and L3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:51
L5	17	L4 and polyester	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:51
L6	11	L5 and ((metsuke) or (basis near3 weight))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:51
L7	3	L6 and ((apparent or bulk) near3 density)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:51
L8	6	L5 and ((apparent or bulk) near3 density)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 13:53
L9	21	(nonwoven with (fabric or filter)) same polyester same (apparent near3 density)	US-PGPUB; USPAT	OR	ON	2008/12/18 13:55
L10	2	(nonwoven with (fabric or filter)) same polyester same (apparent near3 density) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 13:56
L11	9	(nonwoven with (fabric or filter)) same polyester and (apparent near3 density) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 13:57
L12	38	(nonwoven with (filter)) and (apparent near3 density) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 13:59
L13	17	(nonwoven with (filter)) and (filter with (apparent near3 density)) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 14:08

L14	2	(nonwoven with (filter)) and (filter with (apparent near3 density) with low) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 14:09
L15	3	(filter with (apparent near3 density) with low) and engine	US-PGPUB; USPAT	OR	ON	2008/12/18 14:09
L16	0	(filtration with (apparent near3 density) with low)	US-PGPUB; USPAT	OR	ON	2008/12/18 14:11
L17	0	(filtration same (apparent near3 density) with (high or low))	US-PGPUB; USPAT	OR	ON	2008/12/18 14:11
L18	14	(filtration same (apparent near3 density) with (high or low))	US-PGPUB; USPAT	OR	ON	2008/12/18 14:11
L19	44	(filtration with (apparent near3 density))	US-PGPUB; USPAT	OR	ON	2008/12/18 14:14
L20	1	(filtration with (apparent near3 density)) same polyester	US-PGPUB; USPAT	OR	ON	2008/12/18 14:14
L21	43952	(apparent or bulk) near2 density	US-PGPUB; USPAT	OR	ON	2008/12/18 14:31
L22	47322	(air near2 filter)	US-PGPUB; USPAT	OR	ON	2008/12/18 14:31
L23	10902	"l1" and (g\$1cm\$1sup \$2 or gram or centimeter)	US-PGPUB; USPAT	OR	ON	2008/12/18 14:32
L24	51991	(apparent or bulk) near2 density	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:32
L25	543	"l24" and (g\$1cm\$1sup \$2 or gram or centimeter)	US-PGPUB; USPAT	OR	ON	2008/12/18 14:32
L26	12	l25 and (nonwoven or non\$1woven\$1)	US-PGPUB; USPAT	OR	ON	2008/12/18 14:33
L27	12	l25 and (nonwoven or non\$1woven\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:33
L28	654	"l24" and (g\$1cm\$1sup \$2 or gram or centimeter)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:34
L29	4131	l24 and (nonwoven or non\$1woven\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:34
L30	12	l28 and (nonwoven or non\$1woven\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:34

L31	17	I28 and exhaust	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:35
L32	18	"I24" and (g\$1cm\$1sup \$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:37
L33	0	"I24" with g\$1cm\$1sup \$2	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:37
L34	6479	I24 with g\$1cm\$1sup \$2	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:38
L35	575	I34 and exhaust	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:39
L36	36	I34 and exhaust and nonwoven	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:39
L37	286	I34 and (filter and exhaust)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:43
L38	339	(I24 with g\$1cm\$1sup \$2) same (filter or filtration)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:43
L39	70	(I24 with g\$1cm\$1sup \$2) same (filter or filtration) and exhaust	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 14:43
L40	16	(I24 with g\$1cm\$1sup \$2) same (filter or filtration) and exhaust and polyester	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/18 16:22
S1	0	((KAZUMARO) near2 (FUJIWARA)).INV.	USPAT	OR	ON	2008/12/08 16:08
S2	1	((SHIGEMI) near2 (UESAKA)).INV.	US-PGPUB; USPAT	OR	ON	2008/12/08 16:08
S3	2	((SHOJI) near2 (NISHIGAWA)).INV.	US-PGPUB; USPAT	OR	ON	2008/12/08 16:08
S4	39	((YASUYUKI) near2 (YAMAZAKI)).INV.	US-PGPUB; USPAT	OR	ON	2008/12/08 16:09
S5	1	JP2000061225	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:12
S6	4	"2000061225"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:12
S7	2	"2006190220"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:13
S8	5	"2000011225"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:13
S9	2	"2003340220"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:14

S10	14	"6267252"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:14
S11	2	"7163819"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:14
S12	2	"2007163819"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:14
S13	0	"200245484"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:15
S14	4	"2002045484"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:15
S15	0	"1992045484"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:15
S16	3342	nonwoven with (fabric or filter) and (air\$2laid or (air near2 (lay or laid)))	US-PGPUB; USPAT	OR	ON	2008/12/08 17:23
S17	27093	polyester with binder	US-PGPUB; USPAT	OR	ON	2008/12/08 17:23
S18	1653	nonwoven with (fabric or filter) and ((air \$2laid or (air near2 (lay or laid))) same layer\$4)	US-PGPUB; USPAT	OR	ON	2008/12/08 17:24
S19	289	S17 and S18	US-PGPUB; USPAT	OR	ON	2008/12/08 17:24
S20	254	S19 and ((basis near3 weight) or (basis- weight))	US-PGPUB; USPAT	OR	ON	2008/12/08 17:25
S21	395	(dry near3 heat near3 shrink\$4) or (dry \$2heat near3 shrink\$4)	US-PGPUB; USPAT	OR	ON	2008/12/08 17:26
S22	1	S20 and S21	US-PGPUB; USPAT	OR	ON	2008/12/08 17:26
S24	150565	(internal near3 combustion near3 engine)	US-PGPUB; USPAT	OR	ON	2008/12/08 17:38
S25	6374	S24 with (filter or filtration)	US-PGPUB; USPAT	OR	ON	2008/12/08 17:38
S26	219	S25 same layer\$4	US-PGPUB; USPAT	OR	ON	2008/12/08 17:38
S27	3	S26 same polyester	US-PGPUB; USPAT	OR	ON	2008/12/08 17:39

S28	1116	(210/490).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:44
S29	675	(55/527).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:45
S30	13380	(210/483-508).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:45
S31	4071	(428/221-297.4).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:45
S32	94820	("210").CLAS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:46
S33	198548	("428").CLAS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:46
S34	30324	("55").CLAS.	US-PGPUB; USPAT	OR	OFF	2008/12/08 17:46
S35	318630	S32 S33 S34	US-PGPUB; USPAT	OR	ON	2008/12/08 17:46
S36	72	("2517753"   "3003643"   "3073735"   "3158532"   "3238056"   "3246767"   "3251475"   "3338992"   "3341394"   "3502763"   "3542615"   "3573158"   "3591010"   "3692618"   "3793678"   "3802817"   "3825194"   "3842007"   "3849241"   "4025438"   "4033881"   "4100324"   "4157967"   "4280970"   "4340563"   "4483771"   "4539113"   "4818464"   "5228994"   "5246772"   "5290449"   "5423789"   "5454946"   "5478470"   "5503745"   "5554287"   "5554288"   "5580459"   "5591335"   "5603830"   "5605748"   "5614095"   "5614096"   "5618622"   "5665235"   "5681469"   "5709735"   "5718827"   "5728634"   "5855784"   "5855788").PN. OR ("6267252").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 17:47

S37	72	( "2517753"   "3003643"   "3073735"   "3158532"   "3238056"   "3246767"   "3251475"   "3338992"   "3341394"   "3502763"   "3542615"   "3573158"   "3591010"   "3692618"   "3793678"   "3802817"   "3825194"   "3842007"   "3849241"   "4025438"   "4033881"   "4100324"   "4157967"   "4280970"   "4340563"   "4483771"   "4539113"   "4818464"   "5228994"   "5246772"   "5290449"   "5423789"   "5454946"   "5478470"   "5503745"   "5554287"   "5554288"   "5580459"   "5591335"   "5603830"   "5605748"   "5614095"   "5614096"   "5618622"   "5665235"   "5681469"   "5709735"   "5718827"   "5728634"   "5855784"   "5855788").PN. OR ("6267252").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:01
S38	51	S37 and layer	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:01
S39	16	( "20020139744"   "3592767"   "4093437"   "4211661"   "4340563"   "4795559"   "5130134"   "5175042"   "5246772"   "5486411"   "5609947"   "5614095"   "5665235"   "5709735"   "6267252").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:04
S40	594	(density-gradient or (density near4 gradient)) with (filter or fabric)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:25

S41	3345	nonwoven with (fabric or filter) and (air\$2laid or (air near2 (lay or laid)))	US-PGPUB; USPAT	OR	ON	2008/12/09 08:25
S42	19	S40 and S41	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:25
S43	17	S42 and polyester	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:26
S44	395	(dry near3 heat near3 shrink\$4) or (dry \$2heat near3 shrink\$4)	US-PGPUB; USPAT	OR	ON	2008/12/09 08:26
S45	1	S43 and S44	US-PGPUB; USPAT	OR	ON	2008/12/09 08:26
S46	11	S43 and ((metsuke) or (basis near3 weight))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:32
S47	11	S46 and density	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:32
S48	1	S46 and (apparent near3 density)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:32
S49	1	S46 and (apparent near3 density)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:32
S50	9	S47 and (fiber near3 diameter)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:35
S51	40	(fiber with diameter with gradient) with (filter or fabric)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 08:48
S52	858	(55/486).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/09 08:52
S53	220	S52 and (fiber near3 diameter)	US-PGPUB; USPAT	OR	ON	2008/12/09 08:53
S54	41	S52 and (fiber near3 diameter) and (air-laid or (air near3 laid))	US-PGPUB; USPAT	OR	ON	2008/12/09 08:53
S55	51	("4093437").URPN.	USPAT	OR	ON	2008/12/09 11:26
S56	11	("4164400"   "4702940"   "4714647"   "5240484"   "5647881"   "6156086"   "6171369"   "6183536"   "6372004"   "6514325"   "6585794").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/09 11:38
S57	116	((dry near3 heat near3 shrink\$4) or (dry \$2heat near3 shrink \$4)) same polyester	US-PGPUB; USPAT	OR	ON	2008/12/09 17:18

S58	48	S57 and layer	US-PGPUB; USPAT	OR	ON	2008/12/09 17:18
S59	48	S57 and layer\$3	US-PGPUB; USPAT	OR	ON	2008/12/09 17:18
S60	7	S59 and nonwoven	US-PGPUB; USPAT	OR	ON	2008/12/09 17:19
S61	31	S57 and (filter or filtration)	US-PGPUB; USPAT	OR	ON	2008/12/09 17:19
S62	9	S61 and nonwoven	US-PGPUB; USPAT	OR	ON	2008/12/09 17:20
S63	4	S62 and layer	US-PGPUB; USPAT	OR	ON	2008/12/09 17:20
S64	858	(55/486).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/10 10:12
S65	6	S64 and (((air near2 laid) or air-laid) same polyester same binder)	US-PGPUB; USPAT	OR	ON	2008/12/10 10:12
S66	10	S64 and (((air near2 laid) or air-laid) with polyester)	US-PGPUB; USPAT	OR	ON	2008/12/10 10:16
S67	30	S64 and (((air near2 laid) or air-laid) same polyester)	US-PGPUB; USPAT	OR	ON	2008/12/10 10:18
S68	246	"4640810"	US-PGPUB; USPAT	OR	ON	2008/12/10 14:10
S69	1	("4640810").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/10 14:10
S70	1	("5772846").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/10 15:07
S71	35	S64 and (water near2 repel\$5)	US-PGPUB; USPAT	OR	ON	2008/12/10 16:48
S72	23	S64 and (water near2 repel\$5) and polyester	US-PGPUB; USPAT	OR	ON	2008/12/10 16:51
S73	11	S64 and (water near2 repel\$5) and polyester same nonwoven	US-PGPUB; USPAT	OR	ON	2008/12/10 16:51

12/ 18/ 2008 4:52:28 PM

C:\Documents and Settings\cjones3\My Documents\EAST\Workspaces\10550089.wsp